

## ABSTRACT

2-Hydroxyisoflavanone synthase substantially having the amino acid sequence represented by SEQ ID NO:2 and a polynucleotide substantially having the nucleotide sequence of SEQ ID NO:1. Thus, 2-hydroxyisoflavanone synthase can be expressed in a host  
5 cell. By transferring the polynucleotide encoding 2-hydroxyisoflavanone synthase into a plant cell, a plant having an altered isoflavone productivity can be obtained.